

TS-100C Pro, Termoagitador programable con calentamiento y refrigeración

DESCRIPCIÓN

The TS-100C Pro is a programmable laboratory thermo-shaker that combines precise heating and cooling, intensive mixing and interchangeable thermoblocks in one compact instrument. Designed for repeatable sample-preparation workflows, it allows users to create and save multi-step programs directly on the touchscreen. This reduces repeated manual parameter changes and the need to transfer samples between separate heating, cooling and mixing instruments.



KEY BENEFITS

- **Heating, cooling and mixing** in one instrument for efficient temperature-controlled sample preparation.
- **Mixing speeds up to 2500 rpm** support intensive mixing, bead resuspension, extraction and lysis workflows.
- **Automatic thermoblock recognition** identifies the installed block and limits the maximum mixing speed accordingly.
- **Quick thermoblock exchange** without external tools or separate cable connections reduces setup time between applications.
- **Advanced on-screen programming** with up to 20 saved programs and up to 20 steps per program, including holds, repetitions and parameter transitions.
- **Clear touchscreen interface** displays set and actual temperature, speed, time and program status at a glance.
- **Quick Mix function** starts a short mixing cycle using the selected parameters without creating a complete program.
- **Optional heated lid** helps minimise condensation during temperature-controlled workflows. The instrument recognises the lid automatically, while lid heating can be switched on or off as required.
- **Five configurable user profiles and screen lock** help protect established methods and prevent unintended changes in shared laboratories.
- **Integrated system and maintenance information** provides access to the serial number, firmware version, operating hours, calibration status, service reminders and diagnostics. The operating manual can be accessed using an on-screen QR code.

APPLICATIONS

The TS-100C Pro is suitable for **DNA and RNA extraction, NGS library preparation, magnetic-bead cleanup and resuspension, cell lysis, protein extraction, enzymatic reactions, incubation, hybridisation and analytical sample preparation.**

A range of interchangeable thermoblocks allows the instrument to be configured for different compatible tubes, strips and plate formats.

*Maximum mixing speed depends on the installed thermoblock.

ESPECIFICACIONES

Intervalo de ajuste de temperatura	+4°C ... +100°C
Intervalo del control de temperatura	15 °C por debajo de la temperatura ambiente ... +100 °C
Resolución de ajuste de temperatura	0.1°C
Estabilidad de temperatura	±0.1°C
Precisión de temperatura a +37°C	±0.5°C
Velocidad de calentamiento media de +25°C a +100°C	8°C/min
Velocidad de refrigeración media de +100°C a +25°C	5°C/min
Velocidad de refrigeración media de +25°C a +4°C	1.8°C/min
Uniformidad de temperatura en el bloque a +4°C	±0.6°C
Uniformidad de temperatura en el bloque a +37°C	±0.1°C
Uniformidad de temperatura en el bloque a +100°C	±0.3°C
Intervalo del coeficiente de calibración de temperatura	0.936...1.063 (± 0.063)
Intervalo del control de velocidad	250–2500 rpm
Ajuste de tiempo digital	1 min–96 h / sin parada (incremento de 1 min)
Órbita	2 mm
Pantalla	3,5" TFT, 320x480
Tiempo de funcionamiento continuo máximo	168 horas
PC connection	USB-C
Peso	5,1 kg
Corriente de entrada/consumo de energía	12 V DC, 11,5 A / 138 W
Fuente de alimentación externa	Entrada CA 100–240 V; 50–60 Hz; Salida CC 12 V

ACCESORIOS



TSP-20/RB12
BS-010178-AK
bloque

20 tubos de fondo redondo de
Ø12 mm

TSP-24/1.5
BS-010178-KK
bloque

24 microtubos de 1,5 ml

TSP-24/2.0
BS-010178-JK
bloque

24 microtubos de 2 ml

TSP-96/PCR
BS-010178-HK
bloque

Microplaca de 96 pocillos (0,2 ml) para la PCR o para 12 tiras de microtubos de 0,2ml de 8 secciones o para 96 tubos de microanálisis de 0,2 ml

TSP-20/0.5+12/1.5
BS-010178-MK
bloque

20 microtubos de 0,5 ml + 12 microtubos de 1,5 ml

TSP-20/0.2+12/1.5
BS-010178-LK
bloque

20 microtubos de 0,2 ml + 12 microtubos de 1,5 ml

TSP-32/0.5
BS-010178-EK
bloque

32 microtubos de 0,5 ml

TSP-8/5
BS-010178-IK
bloque

8 tubos cónicos de 5 ml

TSP-8/15
BS-010178-FK
bloque

8 tubos cónicos de 15 ml

TSP-4/50
BS-010178-GK
bloque

4 tubos cónicos de 50 ml

TSP-20/CV10
BS-010178-DK
bloque

20 cubetas de 10 mm

TSP-24/CRYO4
BS-010178-CK
bloque

24 tubos criogénicos de 3,6 a 4,5 ml

TSP-24/CRYO1.8
BS-010178-BK
bloque

24 tubos criogénicos de 1 a 1,8 ml



Tapa calefactada para el TS-100C Pro
BS-010178-NK

Cubierta independiente desmontable con calefacción, para el control térmico y de la condensación